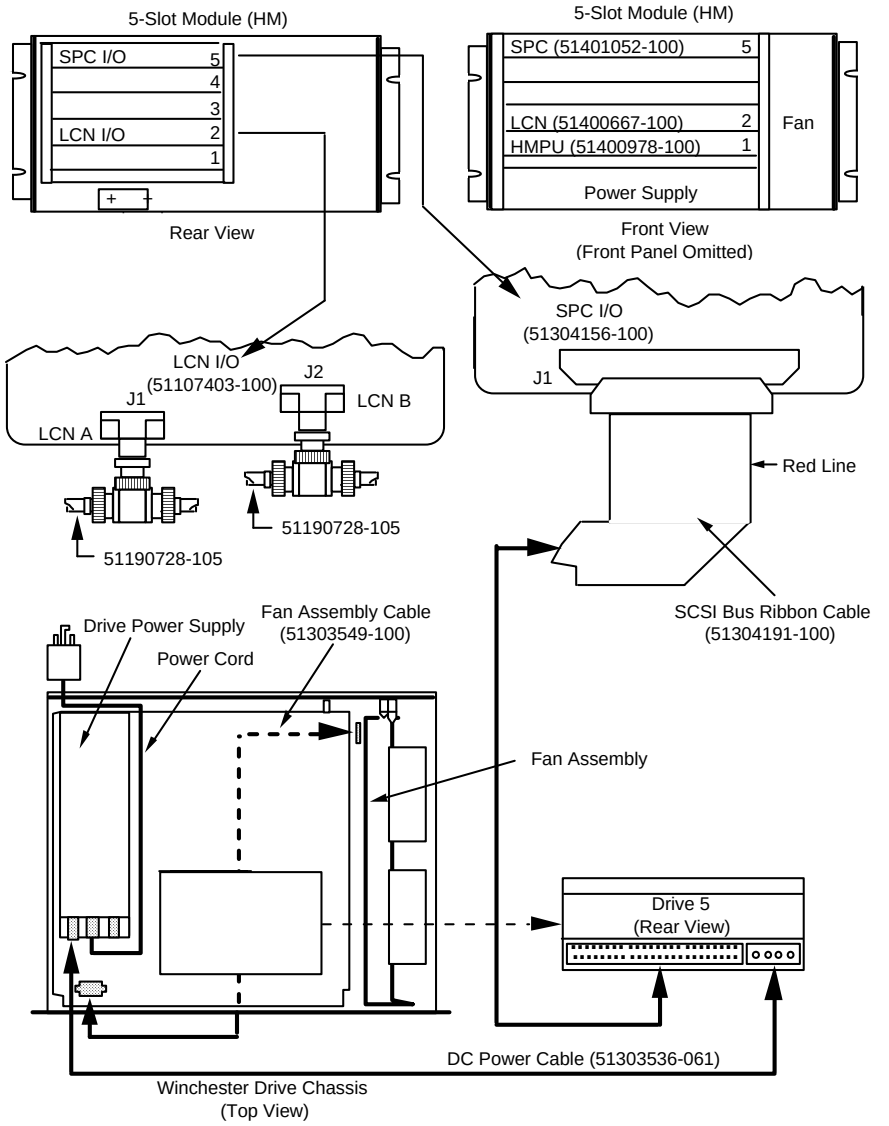
2.2.2 210/445/875 MB and 1.8 GB History Module Description, Continued

Single drive configuration

Figure 2-7 illustrates the components and interconnections between the SPC I/O circuit board and a single drive. Three SCSI bus termination resistor modules must be installed on the bottom of the 210 MB or 445 MB drive.

Figure 2-7 Single 210/445/875 MB or 1.8 GB Drive History Module Components and Interconnections



Note:

Depending upon the manufacturing date of the History Module, an EMPU, HMPU, or HPK2 could be installed in slot 1. If an HPK2 is installed in slot 1, the SPC and SPC I/O circuit boards must be installed in slot 4 because no more than than two empty slots can exist between circuit boards.

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9.4 Nonredundant WREN III Drive Installation

Overview

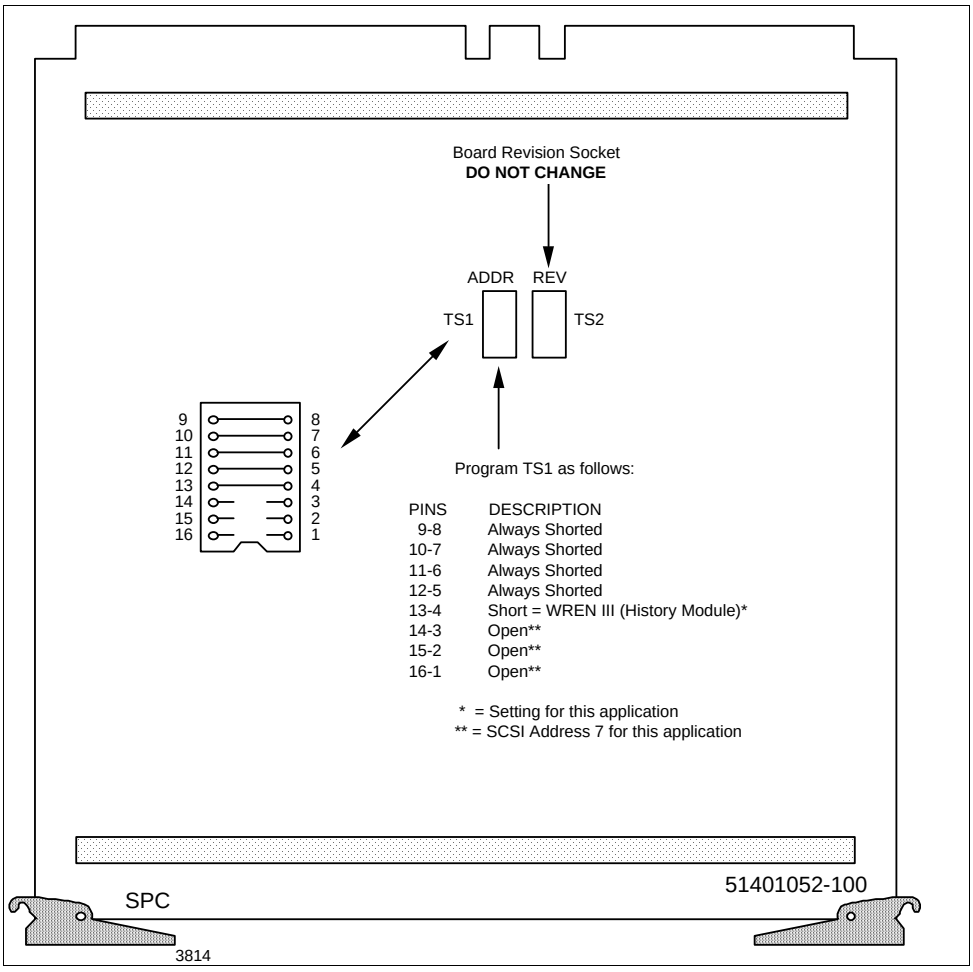
Use the supplementary information provided in this subsection when installing a nonredundant WREN III drive and associated components.

9.4.1 Smart Peripheral Controller (SPC) and SPC I/O Boards

SPC Pinning

Check the pinning jumpers in location TS1 on the Smart Peripheral Controller circuit board (51401052-100) and verify they are positioned as illustrated in Figure 9-5. The revision pinning in TS2 is factory set and must not be altered in the field.

Figure 9-5 SPC Board Address Pinning for SCSI Bus Address



No SPC I/O pinning required

The SPC Input/Output (SPC I/O) circuit board (51304156-100) that interfaces WREN III drives has no pinning requirements.

9.5.1 Smart Peripheral Controller (SPC) and SPC I/O Boards

SPC pinning

Check the pinning jumpers at location TS1 on the Smart Peripheral Controller circuit board (51401052-100) and verify they are positioned as illustrated in Figure 9-11. The revision pinning at TS2 is factory set and must not be altered in the field.

SPC firmware revision

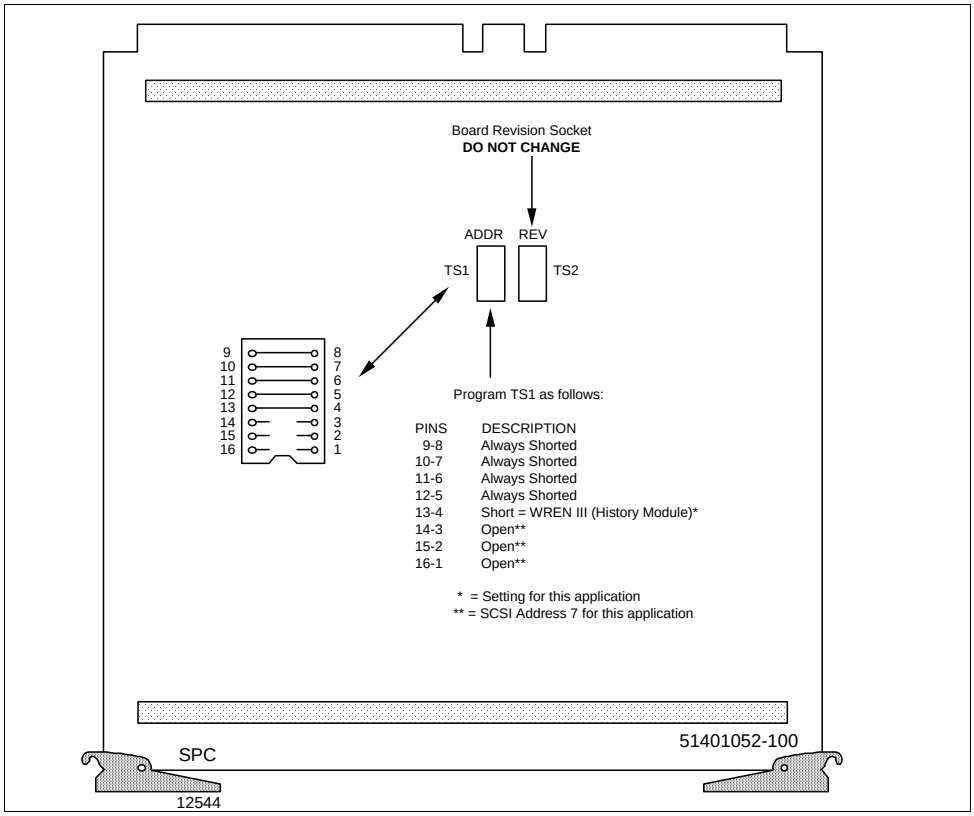
Inspect the Smart Peripheral Controller circuit board and verify that it has the proper firmware revision. It must be revision "**G**," or a later revision. The two firmware EPROMs are located approximately at coordinates 18F and 18G as illustrated in Figure 9-11.

If replacement of the firmware is required, note the orientation and location of the EPROMs 0928-101 and 0928-102 before removal. Be sure to wear an ESD wriststrap that is properly grounded. Remove the EPROMs and replace them with the proper revision. Change the firmware revision at the front of the circuit board.

No SPC I/O pinning required

The SPC Input/Output (SPC I/O) circuit board (51304156-100) that interfaces the 210 MB, 445 MB, 875 MB, or 1.8 GB drive has no pinning requirements.

Figure 9-11 SPC Board Address Pinning for SCSI Bus Address



10.2.4 Circuit Board Replacement

CAUTION

CAUTION—All circuit boards used in the History Module contain electrostatically sensitive devices. Use a personnel grounding strap and grounded work surfaces/equipment. Store and transport the parts only in electrostatically safe containers.

Correct circuit board pinning

When replacing an SPC circuit board that was removed from the History Module, be sure the address pinning (TS1) on the replacement board matches the removed board. Do not attempt to duplicate the revision pinning (TS2).

Smart Peripheral Controller (SPC) circuit board

Verify the selection of the pinning jumpers on the TS1 module on the Smart Peripheral Controller (SPC) circuit board (13) as illustrated in Figure 10-2. The revision pinning on the TS2 module has been determined in the factory and must not be changed in the field.

Inspect the Smart Peripheral Controller circuit board for the proper firmware revision. It must be revision "**G**," or a later revision. The two firmware EPROMs are located approximately at coordinates 18F and 18G as illustrated in Figure 10-2.

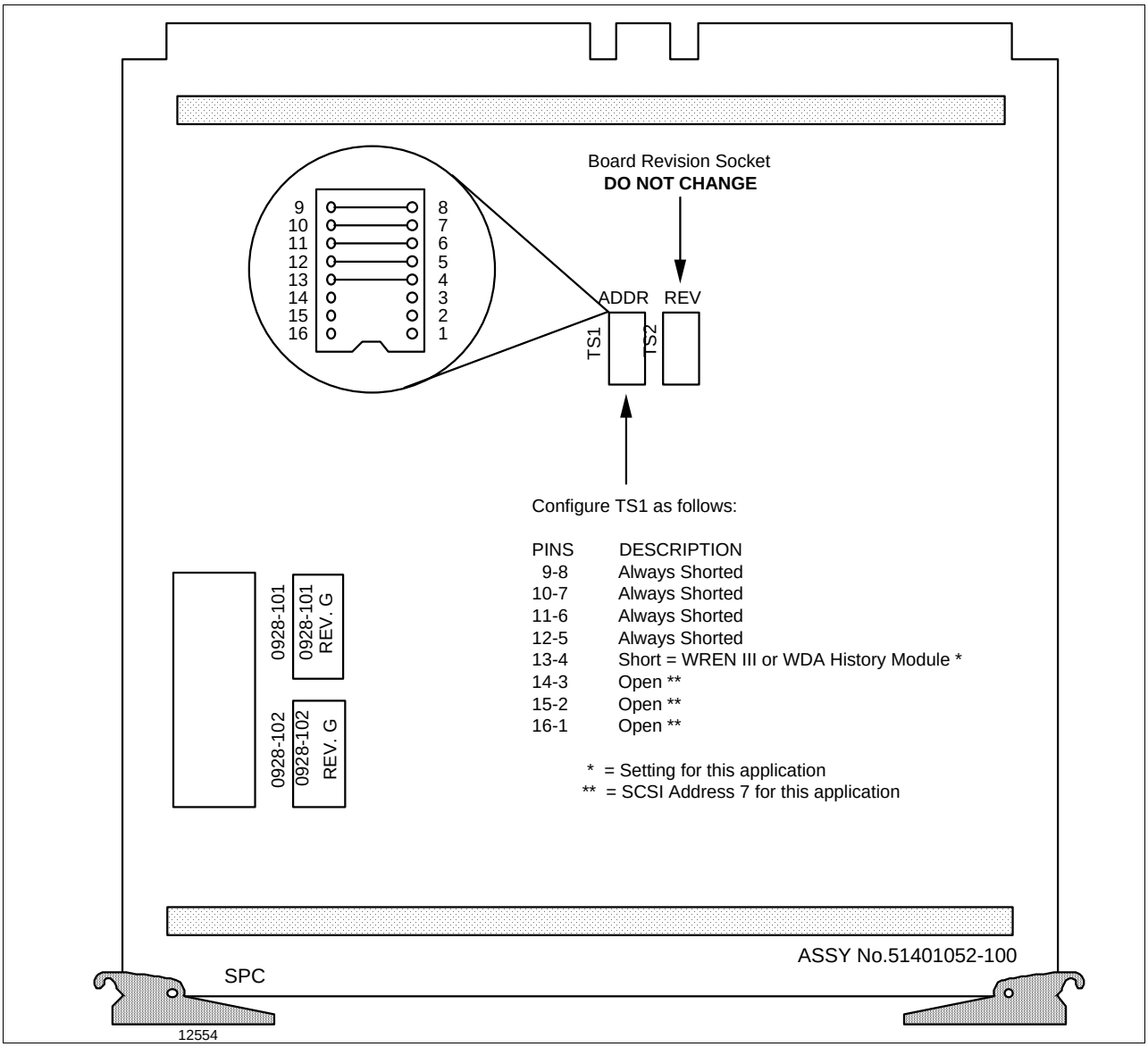
If replacement is required, note the orientation and location of the EPROMs
0928-101 and 0928-102 before removal. Be sure to wear an ESD wriststrap that is properly grounded. Remove the EPROMs and replace them. Change the firmware revision on the circuit board.

Slide the SPC circuit board (13), as illustrated in Figure 10-1, into slot 3 of the module chassis until it is fully mated with the backpanel connectors.

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SPC circuit board SCSI bus address pinning

Figure 10-2 SCSI Bus Address Pinning on SPC Circuit Board



SPC II (SPC2) I/O circuit board

The SPC II (SPC2) I/O circuit board (8) is associated with the SPC circuit board and is installed in slot 2 of the rear card cage as illustrated in Figure 10-1. Slide the SPCII I/O circuit board into the slot until fully mated with the backpanel connectors.

There are no pinning requirements on the board.

Continued on next page

WDA type History Module parts list

Table 13-2 lists part numbers for the Winchester Disk Assembly type History Module at the service part level.

Table 13-2 WDA Type Drive History Module Parts List

Item	Description	Part Number
	Five-Slot Module Assembly (w/o circuit boards, power supply, fan assy) *	51195499-100
* 3	Fan Assembly with fans for Five-Slot Module	51400646-100
* 2	Enhanced Power Supply for Five-Slot Module	51195066-100
	Power Cord, 125 Vac, for Five-Slot Module	51303508-100
	Power Cord, 250 Vac, for Five-Slot Module	51303508-200
1	Five-Slot Module Cover Assembly	51400918-100
* 4	WDA Chassis with Winchester Drive Interface (WDI) circuit board	51401930-100
5/6	Winchester Drive Tray (power cable, power switch, and printed flex-circuit)	51401929-300
*	210 Megabyte Disk Drive kit (includes installation instructions)	51196269-100
*	445 Megabyte Disk Drive kit (includes installation instructions)	51196351-100
*	875 Megabyte Disk Drive kit (includes installation instructions)	51196720-100
*	1.8 Gigabyte Disk Drive kit (includes installation instructions)	51196897-100
*	Partioned WDA Winchbester Drive Tray	51403366-100
*	Dual Logical Drive replacement for 1.8 GB disk drive	51191579-100
*	Dual Logical Drive replacement for 875 MB disk drive	51191579-200
* 11	K2LCN-2 Circuit Board (with 2 megawords of memory)	51402615-200
* 11	K2LCN-4 Circuit Board (with 4 megawords of memory)	51402615-400
* 11	K4LCN Circuit Board	51401946-100
* 11	4-Megaword Memory Board for K4LCN Board (51401946-100)	51201645-400
* 11	K4LCN Circuit Board	51402755-100
* 11	4-Megaword Memory Board for K4LCN Board (51402755-100)	51201795-400
* 7	LCN I/O Circuit Board	51107403-100
* 7	CLCN A/B Circuit Board – CE Compliant	51305072-100
* 12	Smart Peripheral Controller (SPC) Circuit Board	51401052-100

* ORU Level Replacement Item

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